

OKLAHOMA CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
P.O. BOX 52000
OKLAHOMA CITY, OK 73152-2000
(Rule 165:10-3-1)

API NUMBER: 093 25027

Approval Date: 05/12/2016

Expiration Date: 11/12/2016

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 20N Rge: 14W

County: MAJOR

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 200 1980

Lease Name: MCCONNELL

Well No: 19-1H

Well will be 200 feet from nearest unit or lease boundary.

Operator Name: COMANCHE RESOURCES COMPANY

Telephone: 4057555900

OTC/OCC Number: 18676 0

COMANCHE RESOURCES COMPANY
6520 N WESTERN AVE STE 300
OKLAHOMA CITY, OK 73116-7334

MIKE W. MCCONNELL
212 W. DOGWOOD DR.
POND CREEK OK 73766

Formation(s) (Permit Valid for Listed Formations Only):

Name	Depth	Name	Depth
1 MISSISSIPPIAN	8000	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 650055

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201505089

Special Orders:

Total Depth: 14194

Ground Elevation: 1772

Surface Casing: 800

Depth to base of Treatable Water-Bearing FM: 390

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 8000 Average: 5000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 16-31246

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

HORIZONTAL HOLE 1

Sec 19 Twp 20N Rge 14W County MAJOR

Spot Location of End Point: S2 S2 SW SE

Feet From: SOUTH 1/4 Section Line: 135

Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 7800

Radius of Turn: 922

Direction: 180

Total Length: 4945

Measured Total Depth: 14194

True Vertical Depth: 9627

End Point Location from Lease,
Unit, or Property Line: 135

Notes:

Category	Description
DEEP SURFACE CASING	5/11/2016 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	5/11/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.
INTERMEDIATE CASING	5/11/2016 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES
PENDING CD - 201505089	5/12/2016 - G60 - (I.O.) 19-20N-14W X650055 MSSP SHL NCT 150' FNL, NCT 300' FEL COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 300' FEL NO OP. NAMED REC. 1-26-16 (CATES)
SPACING - 650055	5/12/2016 - G60 - (640)(HOR) 19-20N-14W EST MSSP, OTHER COMPL. INT. NCT 660' FB (COEXIST WITH SP. ORDER 147653 CRLM, MSSLM)

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093 25027 MCCONNELL 19-1H

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

MAJOR

County, Oklahoma

200'FNL - 1980'FEL Section 19 Township 20N Range 14W I.M.

